MULTENET PocketPAD MultiDrop Ethernet

Low Cost RS232 Serial to 10/100 Base-T Ethernet Device

Quickstart Guide

English
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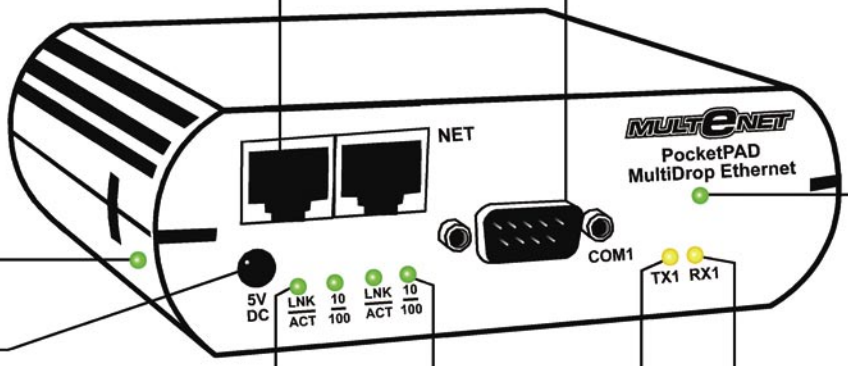
10/100 Base-T PocketPAD MultiDrop Ethernet

NET
10/100 Base-T Ethernet Ports

COM
Serial Port

Power LED
ON when device is powered up.

Heartbeat LED
Flashes during normal operation.
If solidly lit there is a problem.



5V DC
Power 200 mA

LNK/ACT LED
Flashes when activity is seen on the network.
OFF if network is disconnected.

10/100 LED
Ethernet speed indication:
ON = 100 Mbps
OFF = 10 Mbps

TX LED
Lights when serial data is sent.

RX LED
Lights when serial data is received.

1. **Connect the Serial, Ethernet and Power cables.**
2. **Configure the IP Address and Subnet Mask using EtherPAD Explorer.**
3. **Configure the Serial Port parameters.**
4. **Test communications using two terminal sessions.**

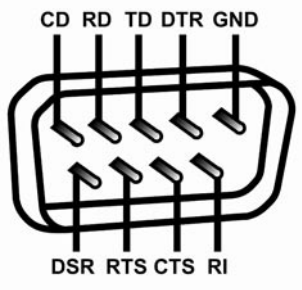
1. Connect the Serial, Ethernet and Power cables.

Serial Line Connection

Check the type of serial device you wish to connect to your PocketPAD.

RS232 only

For DCE devices (e.g. modems) you require a straight serial cable, while for DTE devices (e.g. computers) you require a crossed serial cable. Standard off-the-shelf cables can be used (check the user manual for detailed pin outs).



Pin	RS232
1	CD
2	RX
3	TX
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Connect your serial device to the PocketPAD. You may want to test the configuration by connecting the serial line to your PC and checking data transmission via two terminal sessions (e.g. HyperTerminal). This is briefly described at the end of this guide.

Ethernet Network Connection

Connect your Ethernet cable to the PocketPAD. The LNK LED will light up if the connection is good. The 10/100 LED will light if 100 Base-TX is available.

You can use a crossed or a straight Ethernet cable as the PocketPAD MultiDrop Ethernet will automatically configure its Ethernet interfaces for the specific cable type and also the connection type (10 Base-T or 100 Base-TX).

RJ45 Connector

Power Supply Connection

A 5Vdc (2W) PSU can be connected to the PocketPAD. A light weight Torpedo style power supply unit is available.

If you have connected your PC COM port to the PocketPAD COM1 port you will be able to log into the unit via a terminal session (i.e. HyperTerminal) to configure it (check the user manual for more details) while the TX/RX LEDs are flashing. Default password is “user”.

PocketPAD	
1	TX-
2	TX+
3	RX+
4, 5	na
6	RX-
7, 8	na

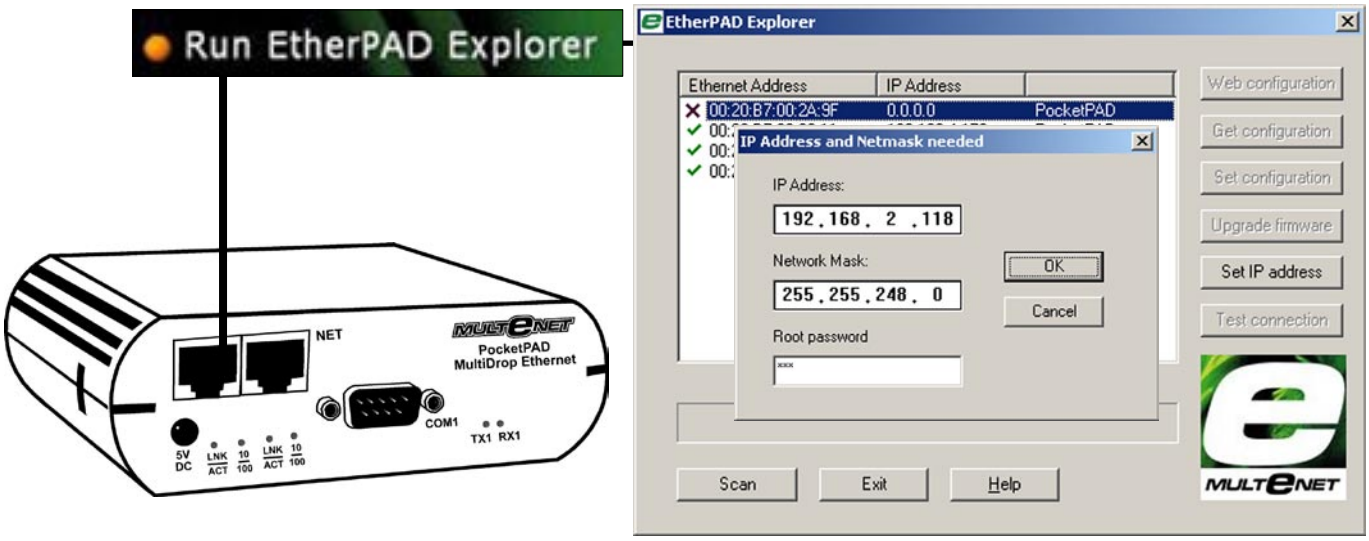
Ethernet Cable

2. Configure the IP Address and Subnet Mask using EtherPAD Explorer.

Launch EtherPAD Explorer to quickly find all Multenet units on the local segment. EtherPAD Explorer can be run from the CD, or installed onto your PC.

Configure the PocketPAD's IP Address and Subnet Mask by highlighting the new device and clicking 'Set IP Address'. After setting the IP Address and Network Mask, you can configure the PocketPAD by clicking 'Web Configuration'.

The 'Set IP Address' window will appear while the unit is rebooting or if your network parameters are incorrect.



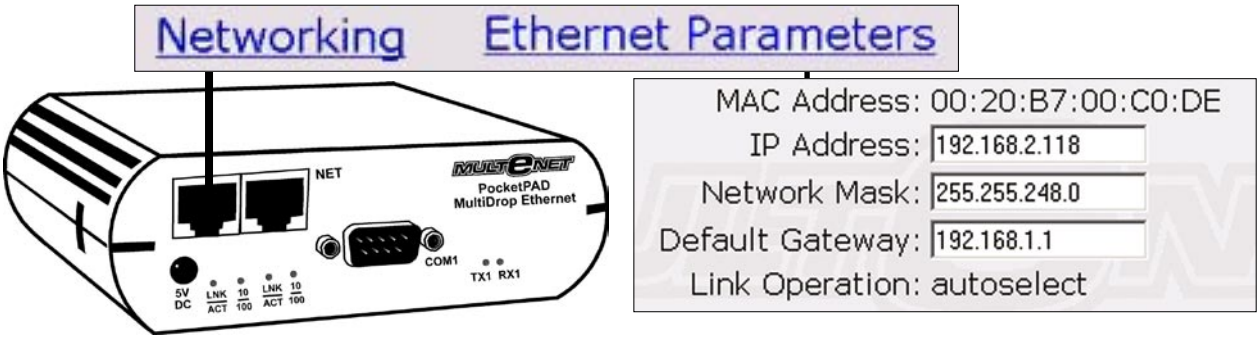
EtherPAD Explorer Network Configuration

Web Configuration

Should your web browser launch but fail to download a web page, there may be a problem related to your browser proxy configuration. Disable the proxy and restart the browser. Another common problem is that of duplicate IP Addresses. The IP Address you inserted may belong to another host. The user manual has more info on faultfinding these issues.

The following login screen should appear if the network parameters are good.

To get your PocketPAD configured for basic serial to ethernet communications you need to configure the PocketPAD's IP Address and Network Mask (for other networked devices to contact it). If you have already "Set IP address" via EtherPAD Explorer, you can skip to the next figure if you have do not wish to insert a Gateway IP Address.



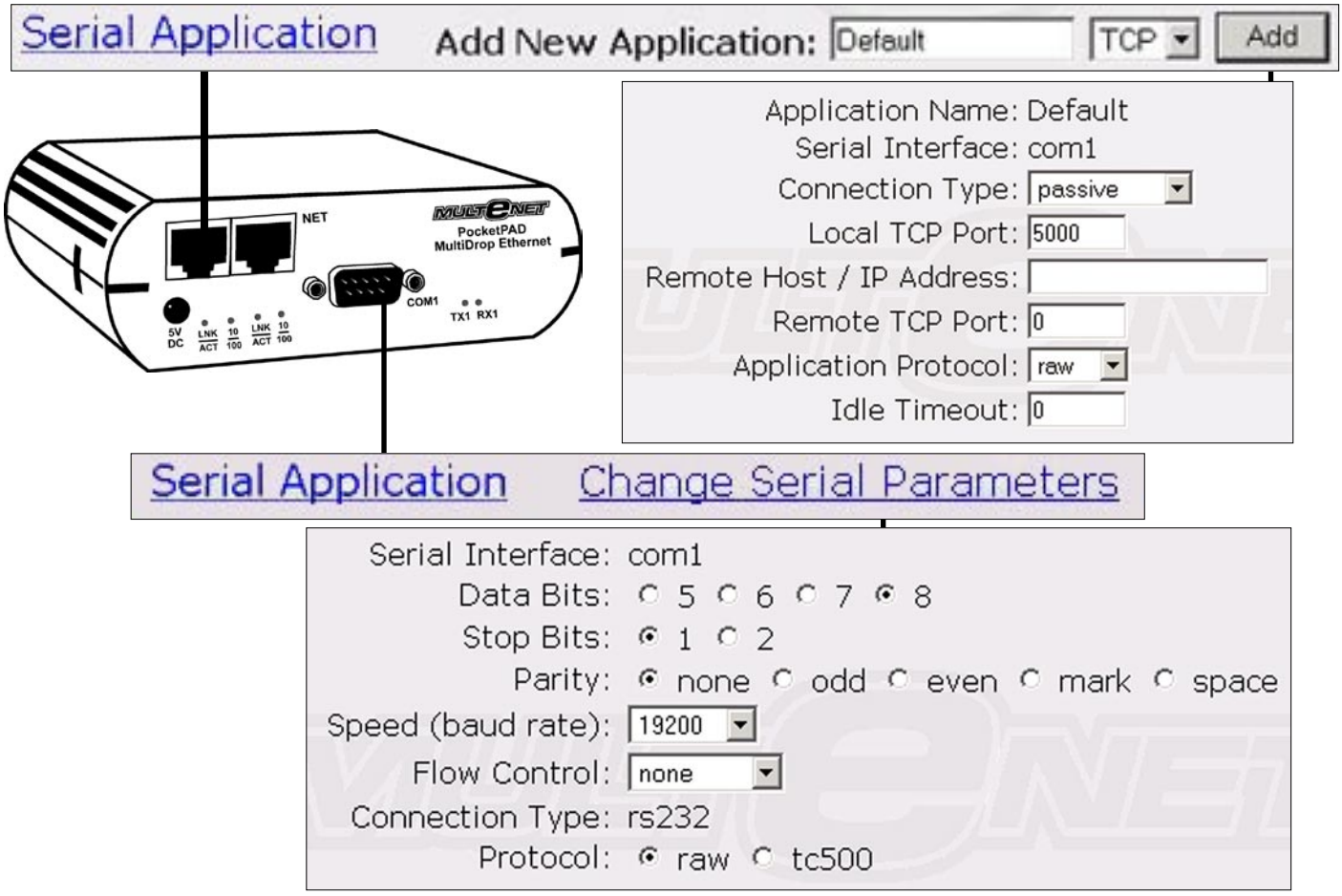
Web Network Configuration

3. Configure the Serial Port parameters.

Next, configure the Serial Port and a Network Application. Check your serial device parameters. The parameters below sets your PocketPAD to accept TCP/IP connections on port 5000, with serial data communication configured for 19200:8:N:1:N. These are default values.

Should you want the PocketPAD to connect to your server on startup, consult the user manual for more info.

Save and Reboot the PocketPAD, saving your new settings.



Web Serial Application Configuration

4. Test communications using two terminal sessions.

Launch two terminal sessions to your PocketPAD. One session connects to the Serial interface (COM1 port) and the other to the TCP port via the network (port 5000). Characters typed in one session should be seen in the other (and vice versa).

NOTE: If you see garbage, check your Serial port session parameters. They should match the settings of your PocketPAD.